AIRCRAFT CERTIFICATION SERVICE

FAA22100001: Airborne Electronic Hardware Job Functions

PURPOSE

This course describes the FAA's role in the airborne electronic hardware (AEH) approval process, applicable policy, and guidance for finding compliance for both simple and complex airborne electronic hardware. The following information is discussed: Aircraft Certification's AEH Job Aid for conducting the AEH development process reviews, RTCA/DO-254, FAA AEH Order, and other special engineering topics used to substantiate AEH.

TARGET AUDIENCE

The target audience for this training includes

- Aviation Safety Engineers (ASEs) responsible for approving or reviewing systems involving AEH
- HQ and Directorate Standards Staff responsible for policy development related to AEH
- Designees who conduct AEH reviews, and
- International certification authorities

COURSE OUTCOMES

Participants will learn about

- FAA's role in AEH projects.
- How to evaluate and approve AEH processes and life cycle data.
- AEH related FAA policy, guidance and other documents (e.g., AC 20-152, CAST Papers, DO-178B, ARP 4754, ARP 4761).

PREREQUISITES

Attendees have taken:

- FAA 21030 Software Fundamentals (or equivalent degree in Computer Science or Software Engineering) AND
- Software Job Functions (FAA 21045) or equivalent course for non-FAA

Note: The FAA 21045 requirement may also be met by having taken both 25951 AND 25952 (Comm / Nav / Surveillance personnel).

DELIVERY METHOD

This course is delivered as instructor-led training.

ENROLLMENT INFO

- FAA Employees: Contact your Division or Directorate AIR Training Manager (ATM).
- Non-FAA Employees: Contact the AEH Course Manager, Gerald Pilj, at (405) 954-0570 for enrollment and tuition cost information.
- Attendees requiring disability accommodations: Contact the AEH Course Manager, Gerald Pilj, at (405) 954-0570

LOCATION & DATES

- FAA Academy, Oklahoma City, Oklahoma
- January 25 – 29, 2010
- June 7 – 11, 2010

Note: This course is 40 hours in duration (5 training days). It begins on Monday, requiring Sunday travel.